Amendments to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application.

Listing of Claims:

1. (Currently Amended) A method for deuteration of a compound represented by the general formula [1]:

$$R^1 - X - R^2$$
 [1]

comprising reacting the compound represented by the general formula [1] under neutral condition with a deuterated solvent other than D_2O_2 in the co-presence of only one activated catalyst selected from a palladium catalyst, a platinum catalyst, a rhodium catalyst, a ruthenium catalyst, a nickel catalyst and a cobalt catalyst,

wherein, R¹ represents an alkyl group, an alkyl group having at least one carboncarbon double bond and/or at least one triple bond, an aralkyl group, or an aralkyl group having at least one carbon-carbon double bond and/or at least one triple bond;

R² represents an alkyl group or an alkyl group having at least one carbon-carbon double bond and/or at least one triple bond, an aryl group, an aralkyl group, an alkoxy group, an aryloxy group or a hydroxyl group;

X represents a carbonyl group or a hydroxylmethylene group;

 R^1 and R^2 may form an alicyclic ring together with a carbon atom contained in X; and

at least one group selected from the group consisting of R¹ and R² has, in an aliphatic portion or portions thereof, at least one multiple bond selected from the group consisting of a carbon-carbon double bond and a carbon-carbon triple bond,

provided that R² represents an alkyl group, an alkyl group having at least one carbon-carbon double bond and/or at least one triple bond, an aryl group, or an aralkyl group when X is a hydroxylmethylene group, and

the carbon carbon double bond and the triple bond are a double bond and a triple bond in an aliphatic portion or portions of the compound, respectively,

provided that when the compound represented by the general formula [1] has at least one carbon-carbon double bond and/or at least one triple-bond, the eatalyst activated catalyst is a catalyst activated in advance before the reaction step is performed is used as the activated catalyst.

- 2. (Original) The method for deuteration according to claim 1, wherein X is a carbonyl group in the general formula [1].
- 3. (Original) The method for deuteration according to claim 1, wherein X is a hydroxymethylene group in the general formula [1].
- 4. (Canceled)
- 5. (Previously Presented) The method for deuteration according to claim 1, wherein the deuterated solvent is deuterium oxide (D_2O) .
- 6. (Previously Presented) The method for deuteration according to claim 1, wherein the only one activated catalyst is one obtained by activating a non-activated catalyst selected from a palladium catalyst, a platinum catalyst, a rhodium catalyst, a ruthenium catalyst, a nickel catalyst and a cobalt catalyst by contacting with hydrogen gas or heavy hydrogen gas.
- 7. (Canceled)
- 8. (Previously Presented) The method for deuteration according to claim 1, wherein the only one activated catalyst is a catalyst comprising an activated palladium based catalyst.
- 9. (Original) The method for deuteration according to claim 8, wherein the activated palladium based catalyst is an activated palladium carbon.

- 10. (Canceled)
- 11. (Previously Presented) A method for deuteration of tricyclo[$5.2.1.0^{2,6}$]decan-8-ol, comprising reacting tricyclo[$5.2.1.0^{2,6}$]decan-8-ol under neutral condition with a deuterated solvent other than D_2O_2 in the co-presence of palladium carbon as only activated catalyst.
- 12. (Original) Tricyclo[5.2.1.0^{2,6}]decan-8-ol wherein deuteration ratio thereof is 60% or more.
- 13. (Currently Amended) The method for deuteration according to claim 1, provided that when the compound represented by the general formula [1] has at least one carbon-earbon double bond and/or at least one triple bond, wherein hydrogen gas [[or]]and heavy hydrogen gas [[is]]are not present in a deuteration reaction system.
- 14. (Previously Presented) The method for deuteration according to claim 1, wherein the only one activated catalyst is a catalyst comprising an activated platinum catalyst.
- 15. (Previously Presented) A method for deuteration of tricyclo[5.2.1.0^{2,6}]decan-8-ol, comprising reacting tricyclo[5.2.1.0^{2,6}]decan-8-ol under neutral condition with a deuterated solvent other than D_2O_2 in the co-presence of platinum carbon as only activated catalyst.
- 16. (Previously Presented) The method for deuteration according to claim 1, wherein the deuterated solvent is other than D_2 and D_2O_2 , and the reaction is carried out in an absence of an alkali metal deuteroxide.
- 17. (Currently Amended) The method for deuteration according to claim 1, wherein the compound is at least one selected from the group consisting of the compound that is decomposable with D_2O_2 -and the compound that has in the general formula [1] at least

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one bond selected from the group consisting of a carbon-carbon double bond and a carbon-carbon triple bond.